

# FNAL Site NAS and AFS Services

## ▣ BlueArc NAS Service

- High performance, campus wide NFS file service
- Titan-3 NAS head performance 20 Gbps / 200K IOPs \*  
\*actual performance depends on LAN and number and type of disks  
\*100MB/s typical with GigE LAN and small SATA pool
- Large volumes possible (128TB)
- Snapshots, Quotas ... tiered storage
- Pool Types (FermiGrid and Experiment private)
- Cost \$955/rawTB (min private pool 30TB)
- Recommend separate pools for batch and interactive tasks
- Backups (NDMP, classic Tibs ....500GB max)  
enstore must be used for experimental data backups
- Lead time for new storage (1-2 weeks HDS delivery and ~ 1 week for install)  
\*Also depends on computer room capacity, power availability and req. approval process

# FNAL Site NAS and AFS Services

## ▣ AFS

- Globally accessible filesystem
- Suitable for interactive use  
20-25MB/s over GigE LAN
- General Servers / Dedicated Servers (minos)
- Volume size 8GB (50GB on dedicated servers)
- \$955/TB (first 100GB free)
- Server Backups  
(8GB general vols. backed up, 50GB dedicated vols. not backed up)